



**★ RAPID ENGINEER DEPLOYABLE, HEAVY
OPERATIONAL REPAIR SQUADRON, ENGINEER (RED HORSE)**

★ This Air Force Manpower Standard (AFMS) quantifies the manpower required to accomplish the tasks described in the process oriented description for varying levels of workload. This AFMS defines the manpower allowed to provide heavy engineering capability to include bare base development, major force beddown, heavy engineer operations, and heavy damage repair. It applies to all active Air Force, Air National Guard (ANG), and Air Force Reserve (AFRES) RED HORSE units, during peacetime for the wartime environment. This AFMS was developed in accordance with policies and procedures contained in AFMAN 38-208, *Air Force Management Engineering Program (MEP)*. Send comments and suggested improvements on AF Form 847, **Recommendation for Change of Publication**, through channels, to AFCQMI/MQBC, 550 E Street East, Randolph AFB TX 78150-4451.

★ SUMMARY OF CHANGES

This AFMS supersedes AFMS 4409, 5 May 1995. It implements format changes to comply with SAF requirements. It also includes minor administrative changes in the overall layout of the AFMS. Based on the findings of a wartime requirements study conducted by HQ AFCEA, the manpower tables now reflect the proper Air Force Specialty Code and skill level mix needed to support the RED HORSE mission under the new UTC structure. These changes result in a zero balance in manpower requirement. Changes are identified with a star (★).

1. Core Composition:

1.1. Core Flight Manpower Required:

1.1.1. Active Air Force:

Y = 401 Peacetime

Y = 404 Deployed (includes augmentees)

1.1.2. Air National Guard/Air Force Reserve. Y = 404

1.2. Core Manpower Range. 401 - 404

1.3. Programming Factor. None

2. Standard Data:

2.1. Approval Date. 11 August 1997

2.2. Man-hour Data Source. Directed Requirement, based on the requirements specified in AFI 10-209, *Red Horse Program*.

2.3. Man-hour Equations (constant manpower):

2.3.1. Active Air Force:

Y = 401 Peacetime

Y = 404 Deployed (includes augmentees)

2.3.2. Air National Guard/Air Force Reserve. Y = 404

2.4. Workload Factor. Constant Manpower

2.5. Points of Contact:

2.5.1. **AFCQMI Representative.** AFCQMI/MQBC, TSgt Rick Neubauer, DSN 487-2472

2.5.2. **Functional Representative.** HQ AFCEA/CEX, RMSgt Ronald Clouse

3. Application Instructions:

3.1. Active Air Force Units:

3.1.1. The manpower table at Attachment 2 is constructed to reflect the wartime and peacetime requirements of an active Air Force RED HORSE Squadron. A total of 401 authorizations are provided for peacetime. Included in this requirement is one 3A051 (Information Management Journeyman) authorized as peacetime only. During deployments (wartime or peacetime), the squadrons are augmented by four authorizations: one 44F3 (Family Physician), one 3E472 (Liquid Fuel Systems Maintenance Craftsman), one 3E452 (Liquid Fuel Systems Maintenance Journeyman), and one 6C071 (Contracting Craftsman). The total wartime or deployed requirement is 404.

3.1.2. When a RED HORSE Squadron operates from split locations (peacetime or wartime) and part of the unit is activated as a detachment by the parent MAJCOM, the senior officer on duty with the detachment will be appointed as the detachment commander. A senior NCO may be appointed, on an additional duty basis, as the detachment first sergeant.

3.2. **Air National Guard and Air Force Reserve Units.** The manpower tables reflect a total of 404 authorizations. Peacetime and wartime requirements are the same.

4. Statement of Conditions:

4.1. Manpower requirements identified on the manpower table have been determined recognizing a bare base environment.

4.2. During peacetime, ANG and AFRES RED HORSE Squadrons are each divided between two operating locations to geographically enlarge the potential recruiting area. The separate operating location concept and additional training and support needs create an additional requirement for peacetime-only authorizations. This standard does not cover the additional peacetime manpower requirements for ANG or AFRES units.

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Attachments

1. Process Oriented Description
2. Manpower Table

PROCESS ORIENTED DESCRIPTION

RAPID ENGINEER DEPLOYABLE, HEAVY OPERATIONAL REPAIR SQUADRON, ENGINEER (RED HORSE)

A1.1. PERFORMS MANAGEMENT DUTIES:

- A1.1.1. PROVIDES GUIDANCE AND DIRECTION TO RED HORSE PERSONNEL.
- A1.1.2. MANAGES TRAINING AND SAFETY PROGRAMS TO INCLUDE AIR BASE GROUND DEFENSE TRAINING AND TACTICS FOR CONTINGENCY OPERATIONS.
- A1.1.3. MANAGES UNIT MOBILITY CENTER.
- A1.1.4. MANAGES FUNDS, ENGINEERING, OPERATIONS, AND LOGISTICS.
- A1.1.5. MONITORS PERMANENTLY DETACHED UNIT.

A1.2. PERFORMS FUNDS CONTROL DUTIES:

- A1.2.1. REQUESTS FUNDS.
- A1.2.2. REVIEWS FUNDS AVAILABILITY.
- A1.2.3. MONITORS EXECUTION OF INTERNAL OPERATIONS OPERATING BUDGET.
- A1.2.4. MANAGES CIVILIAN AND LOCAL NATIONAL HIRE PROGRAM.

A1.3. PERFORMS ENGINEERING DUTIES:

- A1.3.1. PROVIDES ENGINEERING FIELD SUPPORT CAPABILITY.
- A1.3.2. CONDUCTS FIELD SURVEY, SITE SELECTION, AND BASE LAYOUT.
- A1.3.3. DEVELOPS DESIGN PLAN AND SPECIFICATION, COST ESTIMATE, AND WORK PROGRAM.
- A1.3.4. PERFORMS TECHNICAL INSPECTION.
- A1.3.5. COORDINATES PROPERTY AND EASEMENT RIGHT-OF-WAY.
- A1.3.6. SERVES AS LIAISON BETWEEN THE SQUADRON AND PROJECT USER.
- A1.3.7. MAINTAINS FILE OF ENGINEER DRAWINGS.
- A1.3.8. OPERATES DRAWING REPRODUCTION EQUIPMENT.
- A1.3.9. PROVIDES DRAWING TO HOST BASE CIVIL ENGINEER.
- A1.3.10. PERFORMS QUALITY CONTROL INSPECTION AND TESTING OF CONCRETE, ASPHALT, CRUSHED ROCK, AND SOIL.

A1.4. PROVIDES OPERATIONS SUPPORT:

- A1.4.1. MONITORS AND COORDINATES WORK PLAN.
- A1.4.2. MAINTAINS RED HORSE FACILITIES.
- A1.4.3. MAINTAINS STATUS OF PROJECT, VEHICLE FLEET, AND INFORMATION CRITICAL TO SQUADRON OPERATIONS.
- A1.4.4. CONSTRUCTS VERTICAL TYPE FACILITY AND UTILITY SYSTEM.
- A1.4.5. OPERATES AUTOMATIC BUILDING MACHINE (ABM).
- A1.4.6. ESTABLISHES, OPERATES, AND MAINTAINS INDUSTRIAL AREA.
- A1.4.7. MONITORS SHOP STOCK.
- A1.4.8. OPERATES AND PERFORMS OPERATOR MAINTENANCE ON CONSTRUCTION AND RELATED EQUIPMENT.
- A1.4.9. PERFORMS CLEARING, GRUBBING, EXCAVATING, FILLING, GRADING, STABILIZING, AND COMPACTING REQUIREMENT.
- A1.4.10. CONSTRUCTS, SURFACES, AND REPAIRS AIRFIELD, APRON, ROAD, PARKING, AND STORAGE AREA.
- A1.4.11. ESTABLISHES OPERATIONAL AIR BASES USING BARE BASE WRM ASSETS TO ERECT INDUSTRIAL AND SUPPORT FACILITIES, INSTALL AIRFIELD LIGHTING AND AIRCRAFT ARRESTING SYSTEMS, AND CONSTRUCT PASSIVE PROTECTION FORTIFICATIONS.
- A1.4.12. DRILLS DEEP WATER WELLS.
- A1.4.13. CONDUCTS EXPLOSIVE DEMOLITION OPERATION.
- A1.4.14. OPERATES ASPHALT AND CONCRETE PLANT.
- A1.4.15. OPERATES A QUARRY AND ROCK CRUSHER.

- A1.4.16. PERFORMS VEHICLE DISPATCH.
- A1.4.17. PREPARES FOR DEPLOYMENT.
- A1.4.18. PROVIDES LONG-TERM RED HORSE SUPPORT AT OTHER THAN HOME UNIT LOCATION.
- A1.4.19. COORDINATES DETACHMENT OPERATIONS.

A1.5. PROVIDES LOGISTICS SUPPORT:

- A1.5.1. ISSUES, MAINTAINS, AND STORES WEAPON.
- A1.5.2. PROVIDES WAREHOUSING, MATERIAL HANDLING, AND PROTECTION.
- A1.5.3. COORDINATES WITH THE EQUIPMENT AUTHORIZATION INVENTORY DATA (EAID) CUSTODIAN AND BASE SUPPLY TO OBTAIN EAID SUPPORT REQUISITION.
- A1.5.4. PROVIDES STATUS AND FOLLOW-UP ACTION.
- A1.5.5. OPERATES AS CHIEF OF SUPPLY AT DEPLOYED LOCATION.
- A1.5.6. ORDERS, STORES, DELIVERS, AND MAINTAINS RATION.
- A1.5.7. OPERATES AND MAINTAINS FIELD COOKING EQUIPMENT.
- A1.5.8. ESTABLISHES, MAINTAINS, AND OPERATES SQUADRON DINING FACILITY AT HOME STATION AND DEPLOYED LOCATION.
- A1.5.9. MAKES BILLETING ASSIGNMENTS.
- A1.5.10. PROVIDES 24-HOUR LOCATOR SERVICE.
- A1.5.11. OPERATES FIELD LAUNDRY.
- A1.5.12. PROVIDES MORTUARY SEARCH AND RECOVERY SUPPORT.
- A1.5.13. ADMINISTERS MEDICAL TREATMENT AND CARE OF PERSONNEL.
- A1.5.14. ENSURES ADHERENCE TO IMMUNIZATION AND INDUSTRIAL HEALTH PROGRAM.
- A1.5.15. CONDUCTS A HEALTH EDUCATION TRAINING PROGRAM.
- A1.5.16. OVERSEES NONOCCUPATIONAL ENVIRONMENT.
- A1.5.17. MAINTAINS MEDICAL SUPPLIES AND EQUIPMENT.
- A1.5.18. PERFORMS MAINTENANCE ON VEHICLES, EQUIPMENT, AND ACCESSORIES.
- A1.5.19. MANAGES THE OPERATION OF LOGISTIC PLANS.
- A1.5.20. PREPARES AND MONITORS CONTRACTS.
- A1.5.21. PERFORMS DISASTER PREPAREDNESS (DP) DUTIES.
- A1.5.22. OPERATES UNIT MOBILITY CENTER.
- A1.5.23. PREPARES AND MONITORS STATUS OF RESOURCES AND TRAINING SYSTEM (SORTS).

★ SPECIALIZED MANPOWER TABLE							
WORK CENTER/FAC				APPLICABILITY MAN-HOUR RANGE			
Rapid Engineer Deployment, Heavy Operations Repair Squadron, Engineer (RED HORSE)/4409				N/A UTC 4F9_			
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	QTY	AIR FORCE SPECIALTY TITLE	AFSC	GRADE	QTY
Civil Engineer	C32E3	COL	1	Gen Purpose Veh & Body			
Civil Engineer	32E3	LTC	1	Maint Crftmn	2T470	TSG	1
Civil Engineer	32E3	MAJ	2	Gen Prpse Veh Maint Jrnymn	2T451	SSG	1
Civil Engr, Architect/ Architectural (<i>Note 1</i>)	32E3A	LT	1	Gen Prpse Veh Maint Jrnymn Veh Body Maint Jrnymn	2T451 2T452	SRA SSG	2 2
Civil Engr, Civil	32E3C	CPT	2	Information Mgt Crftmn	3A071	MSG	1
Civil Engr, Civil (<i>Note 1</i>)	32E3C	LT	2	Information Mgt Jrnymn	3A051	CIV	1
Civil Engr, Electrical	32E3E	CPT	1	(<i>Note 4</i>)			
Civil Engr, Electrical (<i>Note 1</i>)	32E3E	LT	1	Information Mgt Jrnymn	3A051	SSG	3
Civil Engr, Mechanical	32E3F	CPT	1	Information Mgt Jrnymn	3A051	SRA	3
Civil Engr, Gen (<i>Note 2</i>)	32E3G	CPT	2	Communications Craftsman	3C071	TSG	1
Logistics Plans & Prgms	25L3	MAJ	1	Civil Engineering Mgr	3E000	CMS	3
Information Management	C37A3	CPT	1	Electrical Supt	3E090	SMS	1
Family Physician (<i>Note 3</i>)	44F3	CPT	1	Electrical Sys Crftmn	3E071	MSG	2
Safety Crftmn	1S071	TSG	1	Electrical Sys Crftmn	3E071	TSG	5
Acft Metals Tech Crftmn	2A771	TSG	1	Electrical Sys Jrnymn	3E051	SSG	7
Logistics Plans Crftmn	2G071	MSG	2	Electrical Sys Jrnymn	3E051	SRA	5
Supply Mgr	2S000	CMS	1	Electrical Sys Apr	3E031	A1C	6
Inventory Mgt Crftmn	2S071	MSG	3	Electrical Pwr Prod Crftmn	3E072	MSG	1
Inventory Mgt Jrnymn	2S051	SSG	3	Electrical Pwr Prod Crftmn	3E072	TSG	3
Inventory Mgt Jrnymn	2S051	SRA	3	Electrical Pwr Prod Jrnymn	3E052	SSG	3
Inventory Mgt Apr	2S031	A1C	3	Electrical Pwr Prod Jrnymn	3E052	SRA	3
Vehicle Operations Crftmn	2T171	TSG	1	Electrical Pwr Prod Apr	3E032	A1C	3
Vehicle Maint Mgr	2T300	CMS	1	Heating, Ventilation, Air Con, & Refrigeration Crftman	3E171	MSG	1
Spec Purpose Veh & Equip Maint Crftmn	2T370	MSG	2	Heating, Ventilation, Air Con, & Refrigeration Crftman	3E171	TSG	2
Spec Purpose Veh & Equip Maint Crftmn	2T370	TSG	4	Heating, Ventilation, Air Con, & Refrigeration Jrnymn	3E151	SSG	1
Spec Purpose Veh & Equip Maint Jrnymn	2T351	SSG	9	Heating, Ventilation, Air Con, & Refrigeration Jrnymn	3E151	SRA	2
Spec Purpose Veh & Equip Maint Jrnymn	2T351	SRA	10	Pavements & Construction Equipment Supt	3E291	SMS	4
Spec Purpose Veh & Equip Maint Apr	2T331	A1C	4	Pavements & Construction			
Veh Mnt Con & Anlys Crftmn	2T373	MSG	1	Equipment Crftmn	3E271	MSG	6
Veh Maint Con & Anlys Jrnymn	2T353	SRA	2	Pavements & Construction Equipment Crftmn	3E271	TSG	13
TOTAL		(<i>Note 5</i>)		TOTAL		(<i>Note 5</i>)	

Notes:

1. At ANG/AFRES units, convert all LT auths to CPTs.
2. May substitute a 24T3, Transportation Officer, for one of two 32E3Gs.
3. Authorized for ANG/AFRES only. Skill is provided by augmentees for deploying active duty units.
4. Position authorized at active units only. Position is peacetime only.
5. For total see last specialized manpower table.

★ SPECIALIZED MANPOWER TABLE							
WORK CENTER/FAC				APPLICABILITY MAN-HOUR RANGE			
Rapid Engineer Deployment, Heavy Operations Repair Squadron, Engineer (RED HORSE)/4409				N/A UTC 4F9_			
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	QTY	AIR FORCE SPECIALTY TITLE	AFSC	GRADE	QTY
Pavements & Construction Equipment Jrnymn	3E251	SSG	42	Services Jrnymn	3M051	SSG	4
Pavements & Construction Equipment Jrnymn	3E251	SRA	46	Services Jrnymn	3M051	SRA	5
Pavements & Construction Equipment Apr	3E231	A1C	18	Security Crftmn (<i>Note 1</i>)	T3P071	TSG	1
Structural Supt	3E391	SMS	1	Personnel Crftmn	3S071	MSG	1
Structural Crftmn	3E371	MSG	4	Personnel Jrnymn	3S051	SSG	1
Structural Crftmn	3E371	TSG	6	Personnel Apr	3S031	A1C	1
Structural Jrnymn	3E351	SSG	18	Education & Tng Crftmn	3S271	TSG	1
Structural Jrnymn	3E351	SRA	33	Education & Tng Jrnymn	3S251	SRA	1
Structural Apr	3E331	A1C	15	Medical Svc Crftmn (<i>Note 2</i>)	4N071	MSG	1
Utilities Sys Supt	3E490	SMS	1	Medical Svc Crftmn (<i>Note 2</i>)	4N071	TSG	1
Utilities Sys Crftmn	3E471	MSG	2	Contracting Crftmn (<i>Note 3</i>)	6C071	TSG	2
Utilities Sys Crftmn	3E471	TSG	1	Financial Mgt & Svcs Crftmn	6F070	MSG	1
Utilities Sys Jrnymn	3E451	SSG	4	Financial Mgt Jrnymn	6F051	SRA	1
Utilities Sys Jrnymn	3E451	SRA	8	First Sergeant	8F000	SMS	1
Utilities Sys Apr	3E431	A1C	3				
Environmental Crftmn	3E473	MSG	1				
Environmental Crftman (<i>Note 3</i>)	3E473	TSG	1				
Environmental Jrnymn	3E453	SSG	1				
Engineering Supt	3E591	SMS	1				
Engineering Crftmn	3E571	MSG	3				
Engineering Crftmn	3E571	TSG	5				
Engineering Jrnymn	3E551	SSG	3				
Engineering Jrnymn	3E551	SRA	2				
Operations Supt	3E691	SMS	1				
Operations Crftmn	3E671	TSG	2				
Operations Jrnymn	3E651	SSG	3				
Readiness Crftmn	3E971	TSG	2				
Services Crftmn	3M071	MSG	3				
TOTAL		(<i>Note 4</i>)		TOTAL		401/404	

Notes:

1. Special Experience Identifier (SEI) 327 Air Base Ground Defense, required.
2. Special Experience Identifier (SEI) 496 Independent Duty Medical Techn, required.
3. Authorized for ANG/AFRES only. Skill is provided by augmentees for deploying active duty units.
4. Total for ANG and AFRES is 404. The total for peacetime active units is 401 and includes one CIV 3A051. The total for active units in deployed status is 404 and includes 4 augmentees.